

PRODUCTION OF BATTERY ELECTRODE

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Abstract of JP55126961

PURPOSE: To obtain a copper oxide electrode having high energy density and superior discharge characteristic by preparing a mixture of a copper oxide active material and a metal having a melting point lower than the active material and then subjecting the mixture to heat treatment at a temperature between the decomposition temperature and melting point. CONSTITUTION: A positive electrode of desired shape is formed from a mixture of copper oxide powder, which is a positive electrode active material, and powder of a metal, e.g., lead, zinc, aluminum, antimony, cadmium, silver, etc. having the decomposition temperature 1026 deg.C of the active material, and then the perform is subjected to heat treatment higher than the decomposition temperature and lower than the melting point. For instance, a 100:15 (by weight) mixture of copper oxide powder and lead powder is pressed at 1ton/cm², with a titanium net inserted therein. The perform is then heated in nitrogen or air at 340 deg.C for 30min to give a positive electrode. It is possible by this invention to eliminate the use of a conventional binder, to increase the energy density by the bonded metal powder that provides the positive electrode with conductivity, and to provide superior discharge characteristic that flat voltage is reached soon after the start of discharge.

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